

AMENDMENTS TO THE CLAIMS

Claims 1-10 are currently pending in the application.

Please cancel claims 1-10 as shown below without prejudice or disclaimer to the subject matter of claims 1-10.

Please add new claims 11-30 as shown below.

The following listing of claims 1-30 will replace all prior versions, and listings, of claims in the application:

1.-10. (Cancelled)

11. (New) A device, comprising:

a first LED array having a first anti-parallel configuration;

an inverter operable to provide an alternating voltage; and

A¹⁰
a first impedance circuit including a first inductor and a first capacitor connected to said first LED array in a first series resonant, series loaded configuration,

wherein said first impedance circuit directs ¹a first flow of a first alternating current through said first LED array in response to the alternating voltage having a first polarity and directs a second flow of the first alternating current through said first LED array in response to the alternating voltage having a second polarity.)

12. (New) The device of claim 11, wherein said first LED array includes at least one of a LED pair, a LED string and a LED matrix.

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13. (New) The device of claim 11.

further comprising a second LED array having a second anti-parallel configuration;

wherein said first impedance circuit further includes a second capacitor;

wherein said inductor and said second capacitor are connected to said second LED array in a second series resonant, series loaded configuration; and

wherein said first impedance circuit directs a third flow of a second alternating current through said second LED array in response to the alternating voltage having the first polarity and directs a fourth flow of the second alternating current through said second LED array in response to the alternating voltage having the second polarity.

14. (New) The device of claim 11, further comprising:

a second LED array having a second anti-parallel configuration; and

a second impedance circuit including a second inductor and a second capacitor connected to said second LED array in a second series resonant, series loaded configuration.

wherein said second impedance circuit directs a third flow of a second alternating current through said second LED array in response to the alternating voltage having the first polarity and directs a fourth flow of the second alternating current through said second LED array in response to the alternating voltage having the second polarity.

15. (New) A device, comprising:

a first LED array having a first anti-parallel configuration;

an inverter operable to provide an alternating voltage; and

a first impedance circuit including a first inductor and a first capacitor array

connected to said first LED array in a first series resonant, series loaded configuration,

wherein said first impedance circuit directs a first flow of a first alternating current through first LED array in response to the alternating voltage having a first polarity and directs a second flow of the first alternating current through said first LED array in response to the alternating voltage having a second polarity.

16. (New) The device of claim 15, wherein said first LED array includes at least one of a LED pair, a LED string and a LED matrix.

17. (New) The device of claim 15, wherein said first LED array includes a ^{T3}switch operable to control at least one of the first flow and the second flow of the first alternating current through said first LED array.

18. (New) The device of claim 15,

further comprising a second LED array having a second anti-parallel configuration;

wherein said first impedance circuit further includes a second capacitor array;

wherein said inductor and said second capacitor array are connected to said second LED array in a second series resonant, series loaded configuration; and

wherein said first impedance circuit directs a third flow of a second alternating current through said second LED array in response to the alternating voltage having the first polarity and directs a fourth flow of the second alternating current through said second LED array in response to the alternating voltage having the second polarity.

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19. (New) The device of claim 18,

wherein said first LED array includes a first switch operable to control at least one of the first flow and the second flow of the first alternating current through said first LED array; and

wherein said second LED array includes a second switch operable to control at least one of the third flow and the fourth flow of the second alternating current through said second LED array.

20. (New) The device of claim 15, further comprising:

a second LED array having a second anti-parallel configuration; and

a second impedance circuit including a second inductor and a second capacitor array connected to said second LED array in a second series resonant, series loaded configuration.

wherein said second impedance circuit directs a third flow of a second alternating current through said second LED array in response to the alternating voltage having the first polarity and directs a fourth flow of the second alternating current through said second LED array in response to the alternating voltage having the second polarity.

21. (New) The device of claim 20,

wherein said first LED array includes a first switch operable to control at least one of the first flow and the second flow of the first alternating current through said first LED array; and

wherein said second LED array includes a second switch operable to control at least one of the third flow and the fourth flow of the second alternating current through said second LED array.

22. (New) A device, comprising:
a first LED array having a first anti-parallel configuration;
an inverter operable to provide an alternating voltage; and
a first impedance circuit connected to said first LED array in a first series resonant, series loaded configuration.

wherein said first impedance circuit includes ^{19,160,} means for directing a first flow of a first alternating current through said first LED array in response to the alternating voltage having a first polarity and directing a second flow of the first alternating current through said first LED array in response to the alternating voltage having a second polarity.

23. (New) The device of claim 22, wherein said first LED array includes at least one of a LED pair, a LED string and a LED matrix.

24. (New) The device of claim 22, wherein said first LED array includes a switch operable to control at least one of the first flow and the second flow of the first alternating current through said first LED array.

25. (New) The device of claim 22.

further comprising a second LED array having a second anti-parallel configuration:

wherein said first impedance circuit is connected to said second LED array in a second series resonant, series loaded configuration: and

wherein said first impedance circuit includes ^{2nd cap. array} means for directing a third flow of a second alternating current through said second LED array in response to the alternating voltage having the first polarity and directing a fourth flow of the second alternating current through said second LED array in response to the alternating voltage having the second polarity.

26. (New) The device of claim 25.

wherein said first LED array includes a first switch operable to control at least one of the first flow and the second flow of the first alternating current through said first LED array; and

wherein said second LED array includes a second switch operable to control at least one of the third flow and the fourth flow of the second alternating current through said second LED array.

27. (New) The device of claim 22, further comprising:

a second LED array having a second anti-parallel configuration; and

a second impedance circuit connected to said second LED array in a second series resonant, series loaded configuration.

wherein said second impedance circuit includes means for directing third flow of a second alternating current through said second LED array in response to the alternating voltage having the first polarity and directing a fourth flow of the second alternating current through said second LED array in response to the alternating voltage having the second polarity.

28. (New) The device of claim 27,

wherein said first LED array includes a first switch operable to control at least one of the first flow and the second flow of the first alternating current through said first LED array; and

wherein said second LED array includes a second switch operable to control at least one of the third flow and the fourth flow of the second alternating current through said second LED array.

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Contd

29. (New) A device, comprising:

at least one LED array, each LED array having an anti-parallel configuration:

an inverter means for providing an alternating voltage; and

an impedance means connected to each LED array in a series resonant, series loaded configuration; said impedance means for directing a first flow of a first alternating current through said at least one LED array in response to the alternating voltage having a first polarity and directing a second flow of the first alternating current through said at least one LED array in response to the alternating voltage having a second polarity.

30. (New) The device of claim 29, wherein said at least one LED array includes switching means for controlling at least one of the first flow and the second flow of the first alternating current through said at least one LED array.
